



**King County  
International Airport**

Department of  
Construction & Facilities Management

P.O. Box 80245  
Seattle, WA 98108

(206) 296-7380

(206) 296-0100 TDD

(206) 296-0190 FAX

September 8, 1999

TO: Mike Colmant, Assistant Airport Manager

FROM: Jeff Winter, Airport Engineer *Jeff Winter*

RE: Northeast T-Hangars – Contaminated Soils

Here is a summary of the contaminated soils, which were found to date on the Northeast T-Hangars site:

- 8-13-99 Contractor noticed some petroleum smelling and dark stained soil under the east end of Hangar A while digging for foundation. (Area 1 on the attached sketch) The material was left in a pile (pile 1) until sampling and testing could be done. Late that same day, some green stained soil and tar globs were found in area 2 at the west end of Hangar C as the drainage manhole was being installed.
- 8-14-99 Olympus Environmental came out and did some field screening work at area 1 so that the extent of the contamination could be better known. They took some samples for testing of both areas from the hole areas and from the stockpiles.
- 8-16-99 Contractor found some more green stained soil in area 3 while excavating for another new manhole.
- 8-17-99 Contractor found some more green stained soil in area 5 just a foot down.
- 8-18-99 Olympus reported sampling results. Area 1 clean enough, but pile 1 had 1200 ppm heavy oil level (200 ppm is the threshold). Since the pile 1 was in the way and the contamination level would not readily clean up by aeration methods, it was decided to haul this out to TPS Technologies, Inc. in Tacoma for thermal treatment. The green stained soil was old paint and was found not to be a problem. But samples from area 2 and 3 had results of 790 ppm and 5600 ppm of heavy oil respectively on the side walls of the holes.
- 8-19-99 Started hauling contaminated soil from pile 1 to TPS.

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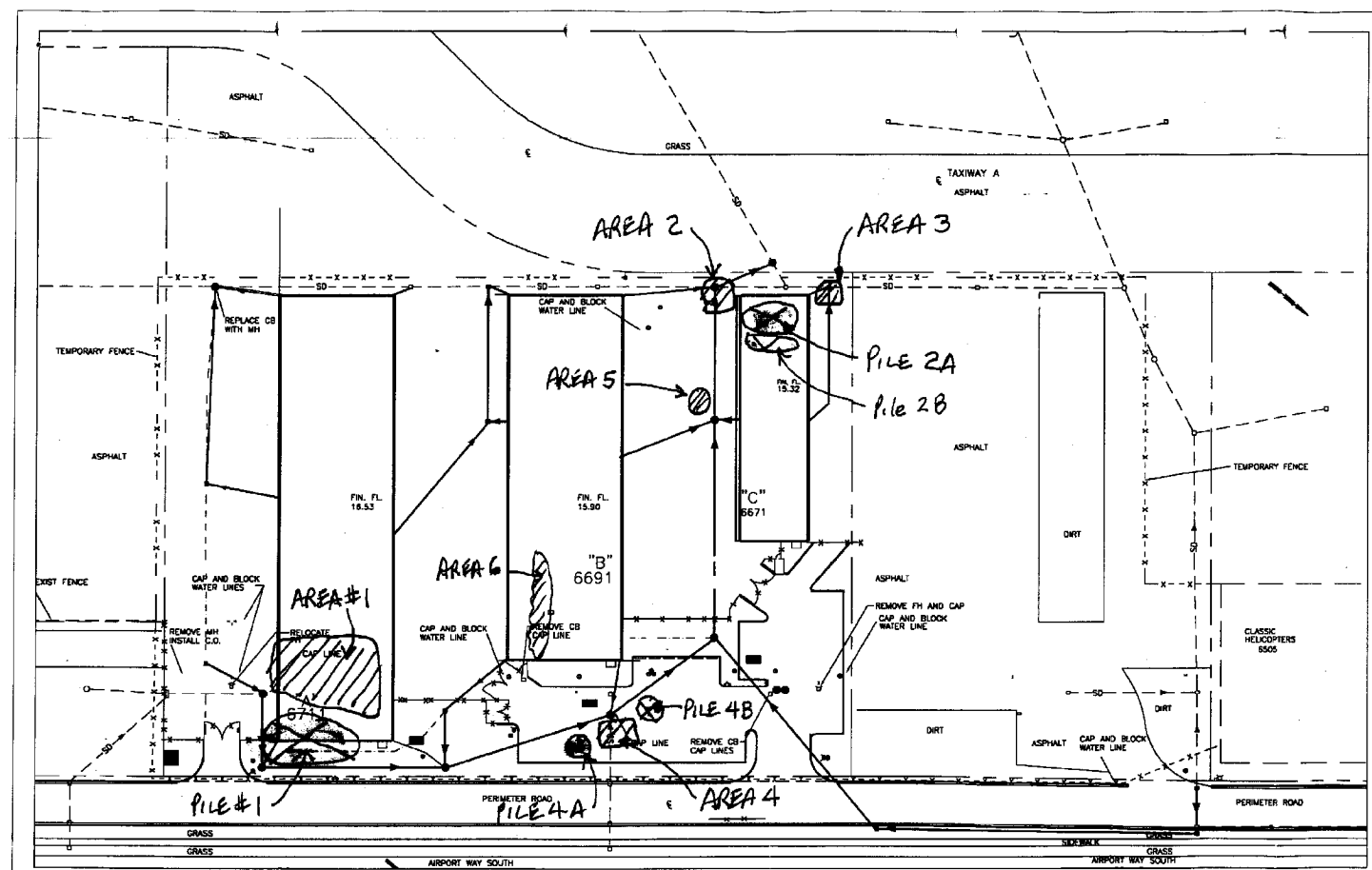
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- 8-20-99 Olympus out to field screen for limits of contamination at areas 2 and 3. Contractor found more contamination while excavating at area 4. Olympus did field screening to determine limits of contamination at area 4 and took samples from areas 2,3 and 4 and piles 2B (the secondary material taken during field screening work done this day from areas 2 and 3), 4A and 4B for testing. More hauling of soil to TPS from pile 1 and pile 2A (the original material taken from areas 2 and 3 prior to the field screening work done this day).
- 8-23-99 Olympus reported the results for areas 2,3 and 4 and piles 2B (the secondary material taken during field screening work done this day from areas 2 and 3), 4A and 4B all were below the cleanup levels. As a precaution, the piles of material were not placed back on the t-hangar site, but were hauled up to the north end of the airport for disposal.
- 8-31-99 Contractor claimed to have found more contamination while over-excavating for the foundation at Hangar B at area 6. Olympus was called and they came out and did some field screening work and determined that there was no detectable contamination.

No other contamination has been found though the contractor has dug 7 foot deep trenches for the east ends of all three hangars as part of the foundation improvement work.

The cost are not fully known except the cost for testing and treatment are up to \$23,000 with the contractors cost of excavation, trucking and delays still to be determined. My estimate is that it will be close to \$30,000.

Cc: Mike Hamm, Airport Maintenance Manager

[illegible]

CP = CONCRETE PIPE  
DIP = DUCTILE IRON PIPE

FILE	LENGTH	DMA/TCP	SLOPE	FILE	LENGTH	DMA/TCP	SLOPE
CM-1 in CM-M-2	108	8.7/CP	0.87%	CM-18 in CM-M-17	23	12/CP	0.87%
CM-2 in CM-M-2	108	8.7/CP	0.87%	CM-17 in CM-M-14	94	12/CP	0.87%
CM-3 in CM-M-2	108	8.7/CP	0.87%	CM-16 in CM-M-14	94	12/CP	0.87%
CM-4 in CM-M-4	45	8.7/CP	0.87%	CM-15 in CM-M-24	23	8.7/CP	0.87%
CM-5 in CM-M-5	73	8.7/CP	0.87%	CM-24 in CM-M-23	23	8.7/CP	1.00%
CM-6 in CM-M-20	60	8.7/CP	0.87%	CM-23 in CM-M-23	178	12/CP	0.87%
CM-7 in CM-M-20	60	8.7/CP	0.87%	CM-22 in CM-M-23	178	12/CP	0.87%
CM-8 in CM-M-21	34	8.7/CP	0.87%	CM-21 in CM-M-23	118	12/CP	0.87%
CM-9 in CM-M-9	35	8.7/CP	0.87%	CM-20 in CM-M-2	12	12/CP	0.87%
CM-10 in CM-M-9	108	12/CP	0.87%	CM-19 in CM-M-2	12	12/CP	0.87%

BY	DATE

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